



1/23

SEQUENCE LISTING

<110> Bogan, Jonathan S.  
Lodish, Harvey F.

<120> Expression Cloning Method

<130> 0399.2025-002

<140> US 10/058,820

<141> 2002-01-28

<150> US 60/325,651

<151> 2001-09-28

<150> US 60/298,963

<151> 2001-06-18

<150> US 60/264,816

<151> 2001-01-26

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<170> FastSEQ for Windows Version 4.0

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Leu	Gln	Val	Leu	Glu	Asp	Thr	Cys	Arg	Arg	Gln	Asp	Phe	Asn	Pro	Ser
		35					40					45			
Glu	Tyr	Asp	Leu	Lys	Phe	Gln	Arg	Thr	Val	Leu	Asp	Leu	Ser	Leu	Gln
	50					55					60				
Trp	Arg	Phe	Ala	Asn	Leu	Pro	Asn	Asn	Ala	Lys	Leu	Glu	Met	Val	Pro
65				70					75					80	
Val	Ser	Arg	Ser	Arg	Glu	Gly	Pro	Glu	Asn	Ile	Val	Arg	Ile	Ala	Phe
			85						90					95	
Gln	Leu	Asp	Asp	Gly	Ser	Arg	Leu	Gln	Asp	Ala	Phe	Cys	Ser	Arg	Gln
		100						105					110		
Thr	Leu	Trp	Glu	Leu	Leu	Ser	His	Phe	Ala	Gln	Thr	Arg	Glu	Arg	Leu
	115						120					125			
Gln	Gln	Leu	Gly	Glu	Lys	Thr	Pro	Val	Cys	Val	Tyr	Met	Arg	Asn	Glu
	130					135					140				
Val	Thr	Gly	Arg	Ala	Ala	Leu	Gln	Asn	Thr	Thr	Leu	Gln	Ser	Leu	Gly
145				150					155					160	
Leu	Thr	Gly	Gly	Ser	Ala	Thr	Ile	Arg	Phe	Val	Ile	Lys	Gln	Cys	Asp
			165						170				175		
Thr	Ala	Gly	Lys	Gln	Glu	Ser	Ile	Ala	Val	Arg	Ser	Lys	Ala	Pro	Gly
	180						185					190			
Ser	Pro	Val	Ser	Ser	Leu	Ser	Ala	Asp	Gln	Ala	Ser	Ser	Ser	Thr	Leu
	195						200					205			

Leu Pro Leu Asn Ser Gly Glu Phe Ser Arg Gly Asp Leu Asn His Glu  
 210 215 220  
 Gly Asp Ala Asn Thr Ser Gly Thr Gly Leu Glu Gly Gly Pro Lys Pro  
 225 230 235 240  
 Thr Asp Ala Gln Thr Lys Gln Ser Thr Ser Glu Pro Ala Ser Ala Pro  
 245 250 255  
 Phe Val Pro Phe Ser Gly Gly Gly Gln Arg Leu Gly Gly Pro Ser Ala  
 260 265 270  
 Ser Leu Arg Pro Leu Thr Ser Pro Ser Ala Asn Ser Ser Lys Ser Phe  
 275 280 285  
 Ser Gly Pro Gly Gly Pro Ser Lys Pro Lys Lys Pro Lys Pro Gly Glu  
 290 295 300  
 Glu Pro Gln Gln Glu Pro Glu Pro Pro Val Asp Arg Asp Pro Val Val  
 305 310 315 320  
 Tyr His Pro Asp Leu Glu Asp Leu Leu Gln Pro Trp Pro Ala Glu Val  
 325 330 335  
 Pro Asp Glu Phe Phe Glu Val Thr Val Asp Asp Val Arg Arg Arg Leu  
 340 345 350  
 Ala Gln Leu Lys Ser Glu Arg Lys Arg Leu Glu Glu Ala Pro Leu Val  
 355 360 365  
 Thr Lys Ala Phe Arg Glu Ala Gln Met Lys Glu Lys Leu Glu Arg Tyr  
 370 375 380  
 Pro Lys Val Ala Leu Arg Val Leu Phe Pro Asp Arg Tyr Ile Leu Gln  
 385 390 395 400  
 Gly Phe Phe Arg Pro Ser Glu Thr Val Gly Asp Leu Arg Asp Phe Val  
 405 410 415  
 Arg Ser His Leu Gly Asn Pro Glu Leu Ser Phe Tyr Leu Phe Ile Ala  
 420 425 430  
 Pro Pro Lys Met Val Leu Asp Asp His Thr Leu Thr Leu Phe Gln Ala  
 435 440 445  
 Asn Leu Phe Pro Ala Ala Leu Val His Phe Gly Ala Glu Glu Pro Thr  
 450 455 460  
 Gly Leu Tyr Leu Glu Pro Gly Leu Leu Glu His Thr Val Ser Pro Ser  
 465 470 475 480  
 Thr Ala Asp Val Leu Val Ala Arg Cys Met Ser Arg Ala Ser Gly Ser  
 485 490 495  
 Pro Pro Leu Leu Pro Ala Pro Asp Pro Val Ser Leu Glu Ser Glu Pro  
 500 505 510  
 Ile Ala Glu Asp Gly Ala Leu Gly Pro Pro Glu Pro Ile Gln Gly Thr  
 515 520 525  
 Ala Gln Pro Val Lys Arg Ser Leu Gly Lys Val Pro Lys Trp Leu Lys  
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 Leu Pro Ala Ser Lys Arg  
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 <213> Mus musculus

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 Ile Ala Phe Gln Leu Asp Asp Gly Ser Arg Leu Gln Asp Ala Phe Cys  
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 Ser Arg Gln Thr Leu Trp Glu Leu Leu Ser His Phe Ala Gln Thr Arg  
 35 40 45  
 Glu Arg Leu Gln Gln Leu Gly Glu Lys Thr Pro Val Cys Val Tyr Met

50	55	60
Arg Asn Glu Val Thr Gly	Arg Ala Ala Leu Gln	Asn Thr Thr Leu Gln
65	70	75
Ser Leu Gly Leu Thr Gly	Gly Ser Ala Thr Ile	Arg Phe Val Ile Lys
85	90	95
Gln Cys Asp Thr Ala Gly	Lys Gln Glu Ser Ile Ala	Val Arg Ser Lys
100	105	110
Ala Pro Gly Ser Pro Val	Ser Ser Leu Ser Ala Asp	Gln Ala Ser Ser
115	120	125
Ser Thr Leu Leu Pro Leu	Asn Ser Gly Glu Phe Ser	Arg Gly Asp Leu
130	135	140
Asn His Glu Gly Asp Ala	Asn Thr Ser Gly Thr Gly	Leu Glu Gly Gly
145	150	155
Pro Lys Pro Thr Asp Ala	Gln Thr Lys Gln Ser Thr	Ser Glu Pro Ala
165	170	175
Ser Ala Pro Phe Val Pro	Phe Ser Gly Gly Gly Gln	Arg Leu Gly Gly
180	185	190
Pro Ser Ala Ser Leu Arg	Pro Leu Thr Ser Pro Ser	Ala Asn Ser Ser
195	200	205
Lys Ser Phe Ser Gly Pro	Gly Gly Pro Ser Lys Pro	Lys Lys Pro Lys
210	215	220
Pro Gly Glu Glu Pro Gln	Gln Glu Pro Glu Pro Pro	Val Asp Arg Asp
225	230	235
Pro Val Val Tyr His Pro	Asp Leu Glu Asp Leu Leu	Gln Pro Trp Pro
245	250	255
Ala Glu Val Pro Asp Glu	Phe Phe Glu Val Thr Val	Asp Asp Val Arg
260	265	270
Arg Arg Leu Ala Gln Leu	Lys Ser Glu Arg Lys Arg	Leu Glu Glu Ala
275	280	285
Pro Leu Val Thr Lys Ala	Phe Arg Glu Ala Gln Met	Lys Glu Lys Leu
290	295	300
Glu Arg Tyr Pro Lys Val	Ala Leu Arg Val Leu Phe	Pro Asp Arg Tyr
305	310	315
Ile Leu Gln Gly Phe Phe	Arg Pro Ser Glu Thr Val	Gly Asp Leu Arg
325	330	335
Asp Phe Val Arg Ser His	Leu Gly Asn Pro Glu Leu	Ser Phe Tyr Leu
340	345	350
Phe Ile Ala Pro Pro Lys	Met Val Leu Asp Asp His	Thr Leu Thr Leu
355	360	365
Phe Gln Ala Asn Leu Phe	Pro Ala Ala Leu Val His	Phe Gly Ala Glu
370	375	380
Glu Pro Thr Gly Leu Tyr	Leu Glu Pro Gly Leu Leu	Glu His Thr Val
385	390	395
Ser Pro Ser Thr Ala Asp	Val Leu Val Ala Arg Cys	Met Ser Arg Ala
405	410	415
Ser Gly Ser Pro Pro Leu	Leu Pro Ala Pro Asp Pro	Val Ser Leu Glu
420	425	430
Ser Glu Pro Ile Ala Glu	Asp Gly Ala Leu Gly Pro	Pro Glu Pro Ile
435	440	445
Gln Gly Thr Ala Gln Pro	Val Lys Arg Ser Leu Gly	Lys Val Pro Lys
450	455	460
Trp Leu Lys Leu Pro Ala	Ser Lys Arg	
465	470	

<210> 3  
 <211> 553  
 <212> PRT  
 <213> Homo sapiens

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			20					25					30		
Leu	Gln	Val	Leu	Glu	Asp	Thr	Cys	Arg	Arg	Gln	Asp	Phe	Asn	Pro	Cys
	35						40					45			
Glu	Tyr	Asp	Leu	Lys	Phe	Gln	Arg	Ser	Val	Leu	Asp	Leu	Ser	Leu	Gln
	50					55					60				
Trp	Arg	Phe	Ala	Asn	Leu	Pro	Asn	Asn	Ala	Lys	Leu	Glu	Met	Val	Pro
65					70					75					80
Ala	Ser	Arg	Ser	Arg	Glu	Gly	Pro	Glu	Asn	Met	Val	Arg	Ile	Ala	Leu
				85					90					95	
Gln	Leu	Asp	Asp	Gly	Ser	Arg	Leu	Gln	Asp	Ser	Phe	Cys	Ser	Gly	Gln
			100					105					110		
Thr	Leu	Trp	Glu	Leu	Leu	Ser	His	Phe	Pro	Gln	Ile	Arg	Glu	Cys	Leu
	115						120						125		
Gln	His	Pro	Gly	Gly	Ala	Thr	Pro	Val	Cys	Val	Tyr	Thr	Arg	Asp	Glu
	130					135					140				
Val	Thr	Gly	Glu	Ala	Ala	Leu	Arg	Gly	Thr	Thr	Leu	Gln	Ser	Leu	Gly
145					150					155					160
Leu	Thr	Gly	Gly	Ser	Ala	Thr	Ile	Arg	Phe	Val	Met	Lys	Cys	Tyr	Asp
				165					170					175	
Pro	Val	Gly	Lys	Thr	Pro	Gly	Ser	Leu	Gly	Ser	Ser	Ala	Ser	Ala	Gly
			180					185					190		
Gln	Ala	Ala	Ala	Ser	Ala	Pro	Leu	Pro	Leu	Glu	Ser	Gly	Glu	Leu	Ser
	195						200					205			
Arg	Gly	Asp	Leu	Ser	Arg	Pro	Glu	Asp	Ala	Asp	Thr	Ser	Gly	Pro	Cys
	210					215					220				
Cys	Glu	His	Thr	Gln	Glu	Lys	Gln	Ser	Thr	Arg	Ala	Pro	Ala	Ala	Ala
225					230					235					240
Pro	Phe	Val	Pro	Phe	Ser	Gly	Gly	Gly	Gln	Arg	Leu	Gly	Gly	Pro	Pro
				245					250					255	
Gly	Pro	Thr	Arg	Pro	Leu	Thr	Ser	Ser	Ser	Ala	Lys	Leu	Pro	Lys	Ser
			260					265					270		
Leu	Ser	Ser	Pro	Gly	Gly	Pro	Ser	Lys	Pro	Lys	Lys	Ser	Lys	Ser	Gly
	275						280					285			
Gln	Asp	Pro	Gln	Gln	Glu	Gln	Glu	Gln	Glu	Arg	Glu	Arg	Asp	Pro	Gln
	290					295					300				
Gln	Glu	Gln	Glu	Arg	Glu	Arg	Pro	Val	Asp	Arg	Glu	Pro	Val	Asp	Arg
305					310					315					320
Glu	Pro	Val	Val	Cys	His	Pro	Asp	Leu	Glu	Glu	Arg	Leu	Gln	Ala	Trp
				325					330					335	
Pro	Ala	Glu	Leu	Pro	Asp	Glu	Phe	Phe	Glu	Leu	Thr	Val	Asp	Asp	Val
			340					345					350		
Arg	Arg	Arg	Leu	Ala	Gln	Leu	Lys	Ser	Glu	Arg	Lys	Arg	Leu	Glu	Glu
		355					360					365			
Ala	Pro	Leu	Val	Thr	Lys	Ala	Phe	Arg	Glu	Ala	Gln	Ile	Lys	Glu	Lys
	370					375					380				
Leu	Glu	Arg	Tyr	Pro	Lys	Val	Ala	Leu	Arg	Val	Leu	Phe	Pro	Asp	Arg
385					390					395					400
Tyr	Val	Leu	Gln	Gly	Phe	Phe	Arg	Pro	Ser	Glu	Thr	Val	Gly	Asp	Leu
				405					410					415	
Arg	Asp	Phe	Val	Arg	Ser	His	Leu	Gly	Asn	Pro	Glu	Leu	Ser	Phe	Tyr
			420					425					430		
Leu	Phe	Ile	Thr	Pro	Pro	Lys	Thr	Val	Leu	Asp	Asp	His	Thr	Gln	Thr
	435						440					445			
Leu	Phe	Gln	Ala	Asn	Leu	Phe	Pro	Ala	Ala	Leu	Val	His	Leu	Gly	Ala
	450					455					460				

Glu Glu Pro Ala Gly Val Tyr Leu Glu Pro Gly Leu Leu Glu His Ala  
 465 470 475 480  
 Ile Ser Pro Ser Ala Ala Asp Val Leu Val Ala Arg Tyr Met Ser Arg  
 485 490 495  
 Ala Ala Gly Ser Pro Ser Pro Leu Pro Ala Pro Asp Pro Ala Pro Lys  
 500 505 510  
 Ser Glu Pro Ala Ala Glu Glu Gly Ala Leu Val Pro Pro Glu Pro Ile  
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 Pro Gly Thr Ala Gln Pro Val Lys Arg Ser Leu Gly Lys Val Pro Lys  
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 Trp Leu Lys Leu Pro Ala Ser Lys Arg  
 545 550

<210> 4  
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 Ser Gly Gln Thr Leu Trp Glu Leu Leu Ser His Phe Pro Gln Ile Arg  
 35 40 45  
 Glu Cys Leu Gln His Pro Gly Gly Ala Thr Pro Val Cys Val Tyr Thr  
 50 55 60  
 Arg Asp Glu Val Thr Gly Glu Ala Ala Leu Arg Gly Thr Thr Leu Gln  
 65 70 75 80  
 Ser Leu Gly Leu Thr Gly Gly Ser Ala Thr Ile Arg Phe Val Met Lys  
 85 90 95  
 Cys Tyr Asp Pro Val Gly Lys Thr Pro Gly Ser Leu Gly Ser Ser Ala  
 100 105 110  
 Ser Ala Gly Gln Ala Ala Ala Ser Ala Pro Leu Pro Leu Glu Ser Gly  
 115 120 125  
 Glu Leu Ser Arg Gly Asp Leu Ser Arg Pro Glu Asp Ala Asp Thr Ser  
 130 135 140  
 Gly Pro Cys Cys Glu His Thr Gln Glu Lys Gln Ser Thr Arg Ala Pro  
 145 150 155 160  
 Ala Ala Ala Pro Phe Val Pro Phe Ser Gly Gly Gly Gln Arg Leu Gly  
 165 170 175  
 Gly Pro Pro Gly Pro Thr Arg Pro Leu Thr Ser Ser Ser Ala Lys Leu  
 180 185 190  
 Pro Lys Ser Leu Ser Ser Pro Gly Gly Pro Ser Lys Pro Lys Lys Ser  
 195 200 205  
 Lys Ser Gly Gln Asp Pro Gln Gln Glu Gln Glu Gln Arg Glu Arg  
 210 215 220  
 Asp Pro Gln Gln Glu Gln Glu Arg Glu Arg Pro Val Asp Arg Glu Pro  
 225 230 235 240  
 Val Asp Arg Glu Pro Val Val Cys His Pro Asp Leu Glu Glu Arg Leu  
 245 250 255  
 Gln Ala Trp Pro Ala Glu Leu Pro Asp Glu Phe Phe Glu Leu Thr Val  
 260 265 270  
 Asp Asp Val Arg Arg Arg Leu Ala Gln Leu Lys Ser Glu Arg Lys Arg  
 275 280 285  
 Leu Glu Glu Ala Pro Leu Val Thr Lys Ala Phe Arg Glu Ala Gln Ile  
 290 295 300  
 Lys Glu Lys Leu Glu Arg Tyr Pro Lys Val Ala Leu Arg Val Leu Phe

305					310					315				320
Pro	Asp	Arg	Tyr	Val	Leu	Gln	Gly	Phe	Phe	Arg	Pro	Ser	Glu	Thr
				325					330					335
Gly	Asp	Leu	Arg	Asp	Phe	Val	Arg	Ser	His	Leu	Gly	Asn	Pro	Glu
			340					345				350		Leu
Ser	Phe	Tyr	Leu	Phe	Ile	Thr	Pro	Pro	Lys	Thr	Val	Leu	Asp	Asp
	355						360				365			His
Thr	Gln	Thr	Leu	Phe	Gln	Ala	Asn	Leu	Phe	Pro	Ala	Ala	Leu	Val
	370					375				380				His
Leu	Gly	Ala	Glu	Glu	Pro	Ala	Gly	Val	Tyr	Leu	Glu	Pro	Gly	Leu
385					390					395				400
Glu	His	Ala	Ile	Ser	Pro	Ser	Ala	Ala	Asp	Val	Leu	Val	Ala	Arg
			405						410				415	Tyr
Met	Ser	Arg	Ala	Ala	Gly	Ser	Pro	Ser	Pro	Leu	Pro	Ala	Pro	Asp
			420					425				430		Pro
Ala	Pro	Lys	Ser	Glu	Pro	Ala	Ala	Glu	Glu	Gly	Ala	Leu	Val	Pro
	435					440					445			Pro
Glu	Pro	Ile	Pro	Gly	Thr	Ala	Gln	Pro	Val	Lys	Arg	Ser	Leu	Gly
	450					455					460			Lys
Val	Pro	Lys	Trp	Leu	Lys	Leu	Pro	Ala	Ser	Lys	Arg			
465					470					475				

&lt;210&gt; 5

&lt;211&gt; 441

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 5

Met	Lys	Lys	Phe	Phe	Gln	Glu	Ile	Lys	Ala	Asp	Ile	Lys	Phe	Lys	Ser
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Ala	Gly	Pro	Gly	Gln	Lys	Leu	Thr	Asp	Ser	Ala	Gly	Glu	Lys	Thr	Thr
			20					25				30			
Lys	Gly	Lys	Ser	Pro	Gln	Leu	Ala	Leu	Arg	Gln	Pro	Arg	Gln	Gly	Pro
	35					40					45				
Thr	Asp	Glu	Ala	Gln	Met	Ala	Ala	Ala	Ala	Ala	Leu	Ala	Arg	Leu	Glu
	50				55						60				
Gln	Lys	Gln	Pro	Arg	Ala	Arg	Gly	Pro	Thr	Ser	Gln	Asp	Ser	Ile	Arg
65					70				75					80	
Asn	Gln	Val	Arg	Lys	Glu	Leu	Gln	Ala	Glu	Ala	Thr	Ser	Ser	Asn	Asn
			85					90					95		
Pro	Gly	Ala	Pro	Gly	Thr	Asn	Ser	Val	Pro	Glu	Pro	Lys	Glu	Glu	Ile
		100						105					110		
Ser	Pro	His	Leu	Ala	Val	Pro	Gly	Val	Phe	Phe	Ile	Cys	Pro	Leu	Thr
		115					120					125			
Gly	Val	Thr	Leu	Arg	Arg	Asp	Gln	Arg	Asp	Ala	His	Ile	Lys	Gln	Ala
	130					135				140					
Ile	Leu	Ser	His	Phe	Ser	Thr	Asp	Pro	Val	Ala	Ala	Ser	Ile	Met	Lys
145					150				155					160	
Ile	His	Thr	Phe	Asn	Arg	Asp	Arg	Asp	Arg	Val	Lys	Leu	Gly	Val	Asp
			165					170					175		
Thr	Ile	Ala	Lys	Tyr	Leu	Asp	Asn	Ile	His	Leu	His	Pro	Glu	Glu	Glu
		180					185					190			
Lys	Tyr	Gln	Lys	Ile	Lys	Leu	Gln	Asn	Lys	Val	Phe	Gln	Glu	Arg	Ile
	195						200				205				
Asn	Cys	Leu	Glu	Gly	Ser	His	Glu	Phe	Phe	Glu	Ala	Ile	Gly	Phe	Lys
	210					215				220					
Lys	Val	Thr	Leu	Pro	Val	Pro	Asp	Gln	Glu	Gly	Gln	Glu	Glu	Phe	Tyr
225					230					235					240

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<210> 6
<211> 441
<212> PRT
<213> Homo sapiens
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Ala	Gly	Pro	Gly	Gln	Lys	Leu	Lys	Glu	Ser	Val	Gly	Glu	Lys	Ala	His	
			20					25					30			
Lys	Glu	Lys	Pro	Asn	Gln	Pro	Ala	Pro	Arg	Pro	Pro	Arg	Gln	Gly	Pro	
		35					40					45				
Thr	Asn	Glu	Ala	Gln	Met	Ala	Ala	Ala	Ala	Ala	Leu	Ala	Arg	Leu	Glu	
	50					55					60					
Gln	Lys	Gln	Ser	Arg	Ala	Trp	Gly	Pro	Thr	Ser	Gln	Asp	Thr	Ile	Arg	
65				70					75					80		
Asn	Gln	Val	Arg	Lys	Glu	Leu	Gln	Ala	Glu	Ala	Thr	Val	Ser	Gly	Ser	
				85					90					95		
Pro	Glu	Ala	Pro	Gly	Thr	Asn	Val	Val	Ser	Glu	Pro	Arg	Glu	Glu	Gly	
			100					105					110			
Ser	Ala	His	Leu	Ala	Val	Pro	Gly	Val	Tyr	Phe	Thr	Cys	Pro	Leu	Thr	
		115					120					125				
Gly	Ala	Thr	Leu	Arg	Lys	Asp	Gln	Arg	Asp	Ala	Cys	Ile	Lys	Glu	Ala	
	130					135					140					
Ile	Leu	Leu	His	Phe	Ser	Thr	Asp	Pro	Val	Ala	Ala	Ser	Ile	Met	Lys	
145				150					155					160		
Ile	Tyr	Thr	Phe	Asn	Lys	Asp	Gln	Asp	Arg	Val	Lys	Leu	Gly	Val	Asp	
				165					170					175		
Thr	Ile	Ala	Lys	Tyr	Leu	Asp	Asn	Ile	His	Leu	His	Pro	Glu	Glu	Glu	
			180					185					190			
Lys	Tyr	Arg	Lys	Ile	Lys	Leu	Gln	Asn	Lys	Val	Phe	Gln	Glu	Arg	Ile	

		195					200					205						
Asn	Cys	Leu	Glu	Gly	Thr	His	Glu	Phe	Phe	Glu	Ala	Ile	Gly	Phe	Gln			
	210					215					220							
Lys	Val	Leu	Leu	Pro	Ala	Gln	Asp	Gln	Glu	Asp	Pro	Glu	Glu	Phe	Tyr			
225					230					235					240			
Val	Leu	Ser	Glu	Thr	Thr	Leu	Ala	Gln	Pro	Gln	Ser	Leu	Glu	Arg	His			
				245					250					255				
Lys	Glu	Gln	Leu	Leu	Ala	Ala	Glu	Pro	Val	Arg	Ala	Lys	Leu	Asp	Arg			
			260					265					270					
Gln	Arg	Arg	Val	Phe	Gln	Pro	Ser	Pro	Leu	Ala	Ser	Gln	Phe	Glu	Leu			
			275					280					285					
Pro	Gly	Asp	Phe	Phe	Asn	Leu	Thr	Ala	Glu	Glu	Ile	Lys	Arg	Glu	Gln			
	290				295						300							
Arg	Leu	Arg	Ser	Glu	Ala	Val	Glu	Arg	Leu	Ser	Val	Leu	Arg	Thr	Lys			
305					310					315					320			
Ala	Met	Arg	Glu	Lys	Glu	Glu	Gln	Arg	Gly	Leu	Arg	Lys	Tyr	Asn	Tyr			
				325					330					335				
Thr	Leu	Leu	Arg	Val	Arg	Leu	Pro	Asp	Gly	Cys	Leu	Leu	Gln	Gly	Thr			
			340					345					350					
Phe	Tyr	Ala	Arg	Glu	Arg	Leu	Gly	Ala	Val	Tyr	Gly	Phe	Val	Arg	Glu			
		355					360					365						
Ala	Leu	Gln	Ser	Asp	Trp	Leu	Pro	Phe	Glu	Leu	Leu	Ala	Ser	Gly	Gly			
		370				375					380							
Gln	Lys	Leu	Ser	Glu	Asp	Glu	Asn	Leu	Ala	Leu	Asn	Glu	Cys	Gly	Leu			
385					390					395					400			
Val	Pro	Ser	Ala	Leu	Leu	Thr	Phe	Ser	Trp	Asp	Met	Ala	Val	Leu	Glu			
				405					410					415				
Asp	Ile	Lys	Ala	Ala	Gly	Ala	Glu	Pro	Asp	Ser	Ile	Leu	Lys	Pro	Glu			
			420					425					430					
Leu	Leu	Ser	Ala	Ile	Glu	Lys	Leu	Leu										
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<210> 7
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<212> PRT
<213> Homo sapiens
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[illegible]

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<210> 8
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gccactgtgc	tggatatctg	cagaattgcc	cttagcgcgt	gaatcagatc	gggggtgggtg	180
gcggggctag	acctctctct	ccagtggaga	tttgccaacc	tgccaaacaa	tgccaaagctg	240
gagatgggtgc	ctgtgtcccc	tagccgcgag	gggcctgaga	acatagttcg	catcgcgttc	300
cagctggatg	acggctccag	gttgcaggac	gctttctggt	cccgcacagac	tctctgggag	360
cttctcagcc	atthttgcaca	gaccagggag	cgtctgcagc	agctgggtga	gaagaccctt	420
gtctgcgtgt	acatgaggaa	tgaggtgact	ggtagagctg	ccttacagaa	cacaaccctt	480
cagtcactgg	gcctgacagg	tggtagtgcc	accatcaggt	ttgtcataaa	gcagtgtgac	540
accgccggca	aacaggagtc	catagccgtc	aggagcaagg	ccccgggaag	tccggtctcc	600
tcctttgtca	ccgaccaggc	atccagtagc	acattgcttc	ctctgaactc	tggggagttc	660
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 35 40 45  
 Ser Thr Phe Pro Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser  
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 Thr Val Leu Asp Leu Ser Leu Gln Trp Arg Phe Ala Asn Leu Pro Asn  
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Q2  
 conc